LD5-I8/V8 and LE5-I8/V8 scanning monitors

Description

The LD5-I8 monitor allows monitoring/control of up to eight 4–20mA analog inputs. The LD5-V8 monitor allows monitoring/control of up to eight 0-10VDC analog inputs (other DC voltage ranges may be available on request). LE5 model versions include Ethernet communications, 16MB data logger memory and web page accessibility. Four setpoint relay outputs with flexible operation modes are provided as standard with a further 4 relays being optionally available. A non isolated RS485 communications port allows communication to other systems and can also allow the user to perform setup etc. via a free downloadable Windows program.

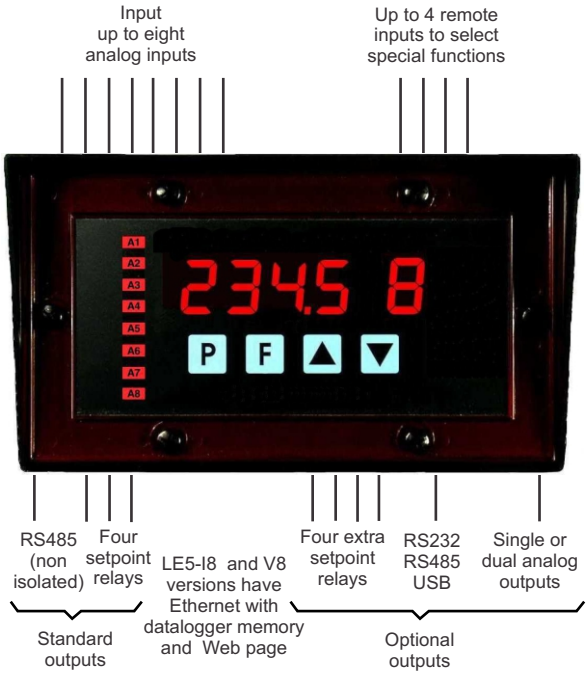
Displays available are:
20mm 6 digit, standard contrast LED display
38mm 6 digit, standard or high contrast LED display
45mm 5 digit, standard contrast LED display
57mm 4 digit, standard contrast LED display
58mm 4 digit, high contrast LED display
100mm 4 digit, standard or high contrast LED display
100mm 6 digit, standard or high contrast LED display
200mm 4 digit, standard or high contrast LED display.

The 38mm, 58mm, 100mm and 200mm high contrast versions are available in Red, Green, Amber or White LED. The 200mm display is also available in standard contrast version Red, Green, Amber or White LED. The display will cycle through the active channels showing the channel number and the value. The 4 and 5 digit versions will flash the channel number then show the reading.

Displays are mounted in an IP65 enclosure. All calibration and setting up is achieved by user pushbuttons using easy to follow messages on the display or via the free downloadable Windows software (a serial converter may be required). Programming functions include decimal point, digital filter, alarm setpoint parameters, number of input channels, calibration and scaling. Each input may be individually calibrated and the instrument retains the calibration values in non volatile memory.

A programmable digital filter improves stability by smoothing out short term interference. The setpoint alarms may be individually configured for setpoint level, hysteresis, high and/or low alarm, relay trip delay, normally open or normally closed operation, latching or non latching operation. Individual relays may be allocated to any input channel or a number of channels or to operate from a calculated value e.g. average or highest. Relays 1 and 2 can be dedicated for use as PI control (frequency or pulse width) if required.

The embedded web page in LE5 models allows viewing via PC, laptop, tablet or smart phone (Android or IOS).



38mm display version

100mm green display version

LD5-I8V8-1.6-0

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0.1 Technical specifications

Input types:	4-20mA or 0-10 Volts DC models available. Input type is factory configured.
Accuracy:	0.1% of full scale
Sample rate:	3 samples per second (8 channels scanned in approx. 2.4 secs)
ADC Resolution:	Effective resolution 18.5 bits
Thermal stability:	25ppm per ^{o}C
Ambient temperature:	LED -10 to 60^{o} C
Humidity:	5 to 95% non condensing
Power supply:	**100 and 200mm LED:** AC 240 or 110V selectable, 50/60Hz or AC 48/42/32/24 selectable, 50/60Hz or DC isolated wide range 12 to 24V. **20mm, 38mm, 45mm, 57 or 58mm LED:** AC 240/110V 50/60Hz or AC 24 to 48V 50/60Hz or DC isolated wide range 12 to 48V or DC 24V non isolated Supply type is factory configured
Output (standard):	4 x relays, 1 x Form C, 3 x Form A rated 5A resistive. Programmable N.O. or N.C. Relays 1 and 2 can alternatively be set for PI control (frequency or pulse width)
Output (standard):	RS485 non isolated serial comms.

Optional outputs - some but not all options below are available in combination

Extra relays:	4 extra relays, form A
Analog retransmission:	Single 4 to 20mA 12 bit Single 4-20mA, 0-1VDC or 0-10VDC (user selectable), 16 bit (4-20mA will drive into resistive loads of up to 800Ω) Analog outputs can be configured for retransmission or PI control
Serial communications:	RS485 isolated 8 bit (ASCII or Modbus RTU functions 1 and 3) RS232 serial comms. 8 bit (ASCII or Modbus RTU functions 1 and 3) USB port, type B

Applications/input types available with large digit display models - see individual brochures

- 8 channel scanning, RTD, Thermocouple and 4-20mA/DCV input versions available
- Analog input, process transmitters etc. ±20mA, 4-20mA or ±2.5VDC or ±25VDC
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- Temperature - RTD, thermocouple, 4-20mA
- Weighing - 4 or 6 wire mV/V output loadcells
- Pressure measurement - 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Liquid level measurement - 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input - RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real Time clock with alarms
- Multifunction timer - elapsed time, stopwatch, run time etc.

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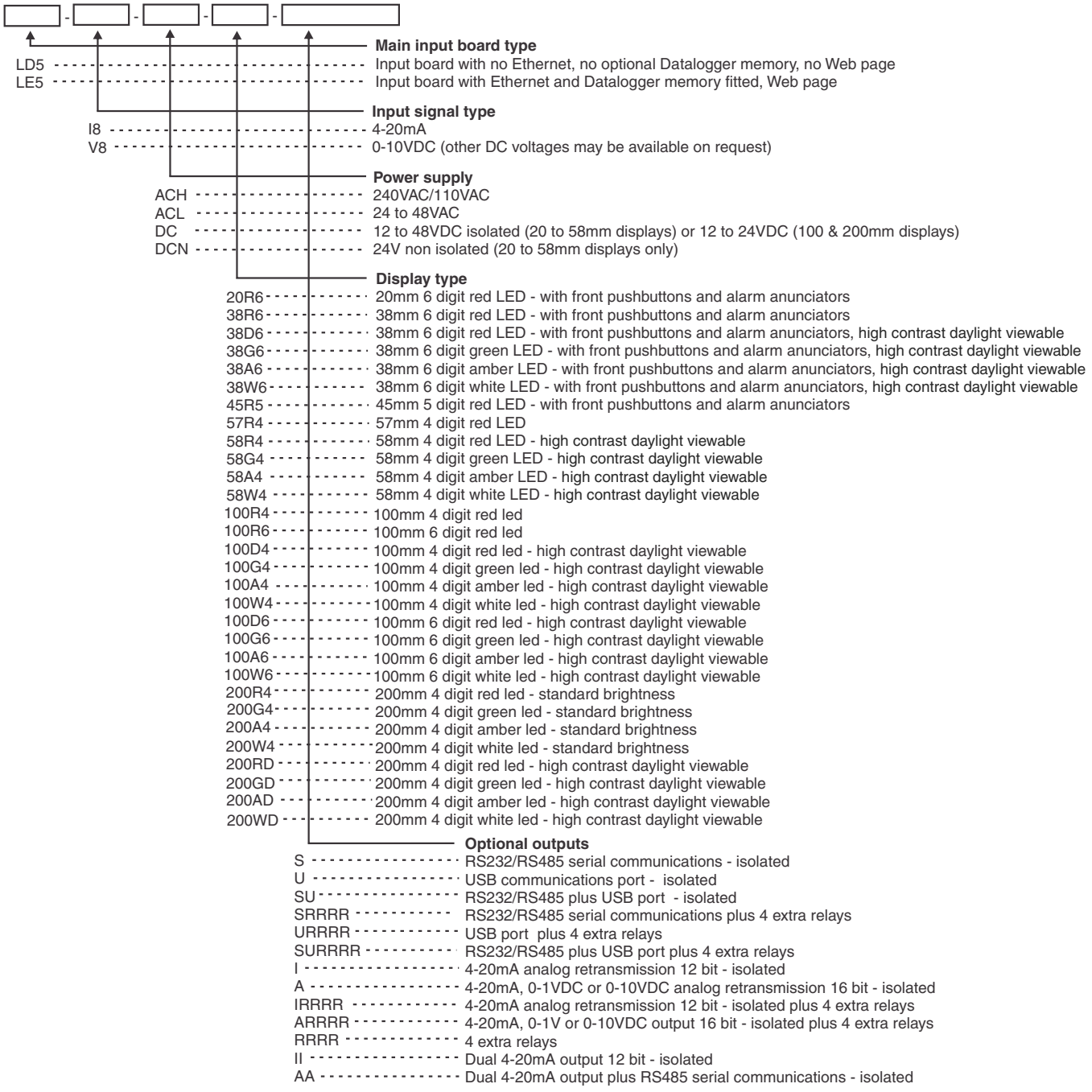
LD5-I8, LE5-I8, LE5-V8 and LD5-V8 order codes

The last sections is for optional items (if required).



Ethernet, datalogger memory and web page cannot be retrofitted to existing LD5 models.

8 channel RTD (Pt100 or Pt1000) input version, model LD5-RT8 also available with same power supply, display and output options as above - see separate brochure

8 channel thermocouple input version, model LD5-TC8 also available with same power supply, display and output options as above - see separate brochure

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